

## IN THE CLAIMS

Claims 1-3, 6-8, 10-11, and 13-19 are pending in this application. Please amend claims 1-2, 6-8, 10-11, 14-15, and 17-19 as follows:

1. (Currently Amended) A traffic control computing device comprising:

a traffic control interface ~~to connect~~ connected to traffic control devices which control traffic in a network;

a traffic control request interface ~~to connect~~ connected to traffic control request detecting devices which determine whether a traffic control must be executed by said traffic control devices;

a first storage device in which information about traffic control received via the traffic control request interface is stored;

a traffic control computing unit connected to said traffic control interface, and connected to said traffic control request interface, and connected to said first storage device; and

a traffic control computing management interface,

wherein said traffic control computing unit computes traffic control algorithms based on traffic control requests received from said traffic control request detecting devices and stored in the first storage device and sends the traffic control algorithms to said traffic control interface,

wherein said traffic control computing unit compares information about a sender of a second traffic control request received through said traffic control request interface for a match with any of traffic control information objects stored in said first storage device and rejects said second traffic control request if the information about said sender of the ~~received~~ second request is not stored in said first storage device, [[and]]

wherein said traffic control computing management interface is configured to operate as a contact point for communicating with a network administrator, and

wherein said traffic control computing unit checks whether ~~a traffic control request that conflicts with~~ said second traffic control request received ~~is included in said first storage device~~ logically conflicts with any traffic control request stored in said first storage device and,

~~if a conflicting traffic control request is included~~ said second traffic control request received logically conflicts with any traffic control request stored in said first

storage device, compares [[a]] information about the sender of the ~~conflicting~~ second  
traffic control request with information about the sender of said traffic control request  
~~received~~ that logically conflicts with said second traffic request received, and,

if both the senders are different, sends a notification of ~~the conflicting requests~~  
the logical confliction to said traffic control computing management interface.

2. (Currently Amended) The traffic control computing device according to claim 1,  
further comprising:

an information unit for acquiring information objects about traffic control  
details per [[a]] traffic control device associated with IDs of the traffic control  
devices, ~~which are the traffic control details being~~ now executed separately by said  
traffic control devices; and

a second storage device in which said acquired information objects about  
traffic control details per traffic control device associated with the IDs of the traffic  
control devices are stored.

3. (Original) The traffic control computing device according to claim 1, wherein IDs of  
said traffic control request detecting devices are stored in said first storage device.

- 4-5. (Canceled)

6. (Currently Amended) The traffic control computing device according to claim 1,  
wherein, if both said senders match, said traffic control computing unit is structured to  
assume that said sender of said ~~conflicting~~ traffic control request that conflicts with  
the second traffic control request ~~would have~~ sent a request to cancel said ~~conflicting~~  
traffic control request that conflicts with the second traffic control request.

7. (Currently Amended) The traffic control computing device according to claim 2,  
wherein, when said information acquiring unit has been successful in newly acquiring  
a traffic control information object from a traffic control device among the traffic  
control devices, said traffic control computing unit is structured to determine that said  
traffic control device among the traffic control devices is operating and updates the  
traffic control information object for the traffic control device among the traffic

control devices stored in said first storage device to said traffic control information object newly acquired.

8. (Currently Amended) The traffic control computing device according to claim 2, wherein when ~~said a~~ traffic control information object has failed to be acquired from a traffic control device among the traffic control devices, said traffic control computing unit determines that said traffic control device among the traffic control devices is not operating and deletes the traffic control information object for the traffic control device determined as being non-operating from said storage device.
9. (Canceled)
10. (Currently Amended) A traffic control method comprising:
  - providing a traffic control computing device connected to traffic control devices which control traffic in a network and traffic control request detecting devices which detect what traffic control must be executed in the network,
  - receiving a traffic control request;
  - storing into a storage device the received traffic control request and ~~the request~~ sender information about a sender of the traffic control request ~~into a storage device~~;
  - determining whether said received traffic control request logically conflicts with any of control requests previously stored in said storage device;
  - if no logical conflict is found, computing a control algorithm to complete said control request;
  - if a logical conflict between said received traffic control request and any of control requests previously stored in said storage device exists, determining whether said sender of the received traffic control request matches ~~[[the]]~~ a sender of the ~~conflicting previously stored~~ control request that logically conflicts with the received traffic control request;
  - if both the senders are different, notifying a network administrator that said logical conflict exists; and
  - resolving the logical conflict by decision made by the network administrator.
11. (Currently Amended) The traffic control method according to claim 10, further comprising:

if said conflict exists, determining whether said sender of the received traffic control request and the sender of the ~~conflicting~~ control request match that logically conflicts with the received traffic request; and

if both the senders match, deleting said ~~conflicting~~ control request that logically conflicts with the received traffic request from said storage device.

12. (Canceled)

13. (Original) The traffic control method according to claim 11, further comprising:

determining whether the sender of the received traffic control request is from a pre-registered sender device; and

rejecting the control request from a non-registered sender.

14. (Currently Amended) The traffic control method according to claim 13, wherein, if said sender of the received traffic control request is a pre-registered sender, said step of determining whether said received traffic control request logically conflicts with any of control requests previously stored in said storage device is executed.

15. (Currently Amended) The traffic control method according to claim 10, further comprising:

receiving information as to whether said network administrator has rejected a part or all of either of ~~the conflicting~~ received control requests that conflicts with the traffic control request stored in the storage device; and

notifying the sender of the rejected control request that the control request that logically conflicts with the traffic control request stored in the storage device was rejected.

16. (Original) The traffic control method according to claim 10, further comprising:

comparing said computed control algorithm with control algorithms separately held by the traffic control devices connected to the computing device;

if said computed control algorithm is not held by said traffic control devices, transmitting the computed control algorithm to ~~[[the]]~~ an appropriate one of traffic control device among said traffic control devices.

17. (Currently Amended) A network control method comprising:
- receiving a traffic control request;
  - storing into a storage device the received traffic control request and ~~the request sender~~ information about a sender of the received traffic control request into a storage device;
  - determining whether said received traffic control request logically conflicts with any of control requests previously stored in said storage device;
  - if no logical conflict is found, computing a control algorithm to complete said control request;
  - executing traffic control, according to the computed control algorithm;
  - if a logical conflict exists between said received traffic control request and any of control requests previously stored in said storage device, determining whether said sender of the received request matches ~~[[the]]~~ a sender of the ~~conflicting~~ control request that logically conflicts with said received traffic control request;
  - if both the senders are different, notifying a network administrator that said logical conflict exists; and
  - resolving the logical conflict by decision made by the network administrator.
18. (Currently Amended) A control method for a network comprising:
- providing traffic control devices which control traffic in the network, traffic control request detecting devices which detect what traffic control must be executed in the network, and a traffic control computing device which processes a traffic control request based on said detected traffic control requirement,
  - receiving, ~~[[by]]~~ with said traffic control computing device, first information (~~hereinafter referred to as first information~~) which comprises ~~[[the]]~~ identifiers of said traffic control request detecting devices, ~~[[the]]~~ detection functions of the traffic control traffic control request detecting devices, and traffic control requests which are now issued from the traffic control request detecting devices; and
  - storing the ~~acquired~~ received first information into a storage device,
  - wherein, upon receiving a new traffic control request from one of said traffic control request detecting devices, said traffic control computing device determines whether the newly received traffic control request logically conflicts with any of the traffic control requests stored in said storage device, if no logical conflict is found, calculates a control algorithm, based on the received traffic control request, and

transmits the calculated control algorithm to ~~[[the]]~~ an appropriate ~~one of~~ traffic control device among said traffic control devices~~[[;]]~~.

if a logical conflict between the newly received traffic control request and any of the traffic control requests stored in said storage device exists, determining whether ~~[[said]]~~ a sender of the received traffic control request matches ~~[[the]]~~ a sender of the ~~conflicting~~ control request that logically conflicts with the received traffic control request;

if both the senders are different, notifying a network administrator that said logical conflict exists; and

resolving the logical conflict by decision made by the network administrator.

19. (Currently Amended) The control method for the network according to claim 18, further comprising:

acquiring second information which comprises ~~[[the]]~~ identifiers of said traffic control devices and ~~[[the]]~~ traffic control functions of the traffic control devices; and

storing said second information acquired into the storage device,

wherein, if the control algorithm calculated by said traffic control computing device has already been held by one of said traffic control devices, said traffic control computing device does not transmit the calculated control algorithm.